

### **PATENT**

### IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants:

Billot et al.

Serial No.:

10/511,736

Case No.: MC058YP

Filed:

10/18/2004

For:

EP4 RECEPTOR AGONIST, COMPOSITIONS AND METHODS THEREOF

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

### Communication

Sir:

Please see attached Request for Corrected Filing Receipt that was originally sent on August 22, 2005. Please note that on the cover page the USPTO Serial No., was incorrectly stated as "10/511, 738", the correct serial number is 10/511,736. I have indicated the correction on the attached copy of the Request for Corrected Filing Receipt.

I hare's contile that this correspondence is beding sated with a Catter's fate. All Service as first class main in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450, on the date appearing below.

MERCK & CO., INC.

By ( 1) Olk

\_\_Date\_\_\_4

9/1/05

**Enclosures** 

Date: September 1, 2005

Respectfully submitted,

By Sylvia A. Ayler, Reg. No. 36,43

Attorney for Applicants

MERCK & CO., INC.

P.O. Box 2000

Rahway, New Jersey 07065-0907

(732) 594-4909





# IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants:

Billot et al.

Serial No.:

10/511,738 10/511,736 Case No.: MC058YP

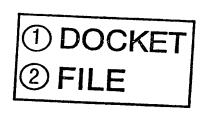
Filed:

10/18/2004

For:

EP4 RECEPTOR AGONIST, COMPOSITIONS AND METHODS THEREOF

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450



### REQUEST FOR CORRECTED FILING RECEIPT

Attached is a copy of the official filing receipt received from the Patent and Trademark Office in the Sir: above application for which issuance of a corrected filing receipt is respectfully requested.

There is an error with respect to the title of the patent application the correct title is "EP4 Receptor Agonist, Compositions and Methods Thereof' a copy of the filing receipt indicating change, a copy of the declaration and Power of Attorney and the transmittal letter is enclosed for your reference.

There is no fee believed due.

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Commissioner for Patents, 20. Box 1450, Alexandria, Virginia 22313-1450, on the date appearing below.

MERCK & CO., INC.

Date / Muris

**Enclosures** 

Date: August 22, 2005

Respectfully submitted,

Sylvia A. Ayler, Reg.

Attorney for Applicants MERCK & CO., INC.

P.O. Box 2000

Rahway, New Jersey 07065-0907

(732) 594-4909



Page 1 of 3

MC0584f

# United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE UNITED STATES DEPARTMENT OF COMME United States Patent and Trademark Office Address COMMISSIONER FOR PATENTS CO. Box 1450 Alexandris, Vigniss 22313-1450 www.uspib.gov

IND CLMS TOT CLMS DRAWINGS ATTY.DOCKET NO FIL FEE REC'D 2 26 FILING OR 371 ART UNIT MC058YP (c) DATE APPL NO. 1614 10/18/2004

10/511,736

**CONFIRMATION NO. 2550** 

MERCK AND CO., INC P O BOX 2000 RAHWAY, NJ 07065-0907 KATHY KLUTKOWSKI

FILING RECEIPT \*OC000000016401406\*

Date Mailed: 07/05/2005

Receipt is acknowledged of this regular Patent Application. It will be considered in its order and you will be notified as to the results of the examination. Be sure to provide the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION when inquiring about this application. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt. If an error is noted on this Filing Receipt, please mail to the Commissioner for Patents P.O. Box 1450 Alexandria Va 22313-1450. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections (if appropriate).

Applicant(s)

Xavier Billot, Montreal, CANADA; Robert N. Young, Senneville, CA; Yongxin Han, Kirkland, CA;

Power of Attorney: The patent practitioners associated with Customer Number 210.

# Domestic Priority data as claimed by applicant

This application is a 371 of PCT/CA03/00838 06/02/2003 which claims benefit of 60/386,499 06/06/2002 and claims benefit of 60/460,134 04/03/2003 \* (\*)Data provided by applicant is not consistent with PTO records.

**Foreign Applications** 

Projected Publication Date: 10/06/2005

Non-Publication Request: No

Early Publication Request: No

**Title** 

**Preliminary Class** 

# PROTECTING YOUR INVENTION OUTSIDE THE UNITED STATES

Since the rights granted by a U.S. patent extend only throughout the territory of the United States and have no effect in a foreign country, an inventor who wishes patent protection in another country must apply for a patent in a specific country or in regional patent offices. Applicants may wish to consider the filing of an international a specific country of in regional patent offices. Applicants may wish to consider the ming of an international application under the Patent Cooperation Treaty (PCT). An international (PCT) application generally has the same application under the national patent application in each PCT-member country. The PCT process simplifies the filing of patent applications on the same invention in member countries, but does not result in a grant of "an international patent" and does not eliminate the need of applicants to file additional documents and fees in

Almost every country has its own patent law, and a person desiring a patent in a particular country must make an Annual every country has its own patent law, and a person desiring a patent in a particular lows of many countries differ application for patent in that country in accordance with its particular laws. Since the laws of many countries differ application for patent in that country in accordance with its particular laws. Since the laws of many countries until its particular laws. Since the laws of many countries until its particular laws. Since the laws of many countries until its particular laws. Since the laws of many countries until its particular laws. Since the laws of many countries until its particular laws. Since the laws of many countries until its particular laws. foreign countries to ensure that patent rights are not lost prematurely.

Applicants also are advised that in the case of inventions made in the United States, the Director of the USPTO must issue a license before applicants can apply for a patent in a foreign country. The filing of a U.S. patent application serves as a request for a foreign filing license. The application's filing receipt contains further information and guidance as to the status of applicant's license for foreign filing.

Applicants may wish to consult the USPTO booklet, "General Information Concerning Patents" (specifically, the Applicants may wish to consult the OSF TO DOUNEL, General information on timeframes and deadlines for filing foreign section entitled "Treaties and Foreign Patents") for more information on timeframes and deadlines for filing foreign patent applications. The guide is available either by contacting the USPTO Contact Center at 800-786-9199, or it patent applications. The galactic available entire by contracting the contract control at control a

### LICENSE FOR FOREIGN FILING UNDER Title 35, United States Code, Section 184 Title 37, Code of Federal Regulations, 5.11 & 5.15

The applicant has been granted a license under 35 U.S.C. 184, if the phrase "IF REQUIRED, FOREIGN FILIN LICENSE GRANTED" followed by a date appears on this form. Such licenses are issued in all applications whe GRANTED the conditions for issuance of a license have been met, regardless of whether or not a license may be required set forth in 37 CFR 5.15. The scope and limitations of this license are set forth in 37 CFR 5.15(a) unless an earl section in 37 OFR 3.13. The scope and initiations of this license are section in 37 OFR 3.13(a) utiless are earlier in 37 OFR 3.13(a) utilises are earlier in 37 date indicated is the effective date of the license, unless an earlier license of similar scope has been grant

This license is to be retained by the licensee and may be used at any time on or after the effective date the under 37 CFR 5.13 or 5.14. unless it is revoked. This license is automatically transferred to any related applications(s) filed under 37 (

The grant of a license does not in any way lessen the responsibility of a licensee for the security of the sul 1.53(d). This license is not retroactive. matter as imposed by any Government contract or the provisions of existing laws relating to espionage and national security or the export of technical data. Licensees should apprise themselves of current regula especially with respect to certain countries, of other agencies, particularly the Office of Defense Trade Con Department of State (with respect to Arms, Munitions and Implements of War (22 CFR 121-128)); the Office of Export Administration, Department of Commerce (15 CFR 370.10 (j)); the Office of Foreign Assets Control, Department of Treasury (31 CFR Parts 500+) and the Department of Energy.

No license under 35 U.S.C. 184 has been granted at this time, if the phrase "IF REQUIRED, FOREIGN FILING LICENSE GRANTED" DOES NOT appear on this form. Applicant may still petition for a license under 37 CFR 5.12, if a license is desired before the expiration of 6 months from the filing date of the application. If 6 months has lapsed from the filing date of this application and the licensee has not received any indication of a secrecy order under 35 U.S.C. 181, the licensee may foreign file the application pursuant to 37 CFR 5.15(b).

BEST AVAILABLE COPY

	<del>_</del>	1.Doc	Approved or use through B/31/2007. OMB 0651-00
	U.S. DEPARTMENT OF CO PATENT AND TRADEMAR	OMMERCE RK OFFICE	ATTORNEY'S DO SET NUMBER MC058TP
DESIGNATED/EL	TTER TO THE UNITED S ECTED OFFICE (DO/EC	)/IIC)	U.S. APPLICATION NO. (If known, see 37 CFI 1.5)
CONCERNING A	FILING UNDER 35 U.S.C ON NO. INTERNATIONAL FILING	C. 371	To be Assigned
PCT/CA03/00838	June 2, 2003	GDATE	PRICEIT VI OPIC SCHEPISI
TITLE OF INVENTION			PE IAPS
EP4 RECEPTOR AGONIST, (	COMPOSITIONS AND METHO	DS THERE	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
APPLICANT(S) FOR DO/EO/US			0 6 July 5
Xavier Billot, Robert N. Young			SEL 0 & July 18
other information:	to the United States Designated	VElected Off	the (DO/EO/ES) the following items and
1. X This is a FIRST subm	nission of items concerning a filing	ig under 35 U	S.C. 371.
2. This is a SECOND or	SUBSEQUENT submission of i	items concern	ning a filing under 35 U.S.C. 371.
3. This is an express requinclude items (5), (6),	uest to begin national examination (9) and (19) indicated below.	n procedures	[35 U.S.C. 371(f)]. The submission must
4. X The US has been elect	ted (PCT Article 31).		
5. A copy of the Internati	onal Application as filed [35 U.S.	S.C. 371(c)(2)	a .
a. [ ] is attached here	to (required only if not communic	cated by the I	nternational Bureau)
nas been commi	unicated by the International Bure	eau.	!
c. is not required,	as the application was filed in the	United State	s Receiving Office (RO/US).
An English language tr	anslation of the International App	plication as fi	led [35 U.S.C. 371(c)(2)]
Amendments to the class	ims of the International Application	on under PC7	Γ Article 19 [35 U.S.C. 371(c)(3)].
a. are attached here	to (required only if not communi	icated by the	International Bureau).
c. have not been m	nunicated by the International Bur	reau.	
d. X have not been m	ade; however, the time limit for made and will not be made.	naking such a	mendments has NOT expired.
— An English language tra	nslation of the amendments to the	e claims unde	er PCT Article 19 [35 U.S.C. 371(c)(3)].
	of the inventor(s) [35 U.S.C. 371(d		
10. An English language tra Article 36 [35 U.S.C. 37 Items 11 to 18 below concern of	nslation of the annexes to the Inte [1(c)(5)]. ther document(s) or information	ernational Pre	eliminary Examination Report under PCT
2. An assignment document	tre Statement under 37 CFR 1.97	and 1.98.	
		sheet in com	pliance with 37 CFR 3.28 and 3.31
3. A FIRST preliminary an			
	QUENT preliminary amendment.		
5. A substitute specification			
6. A power of attorney and/	or change of address letter.		
7. A computer-readable form	n of the sequence listing in accord	dance with Po	CT Rule 13ter.2 and 35 U.S.C. 1.821 - 1.825.
3. U Other items or informatio	n:		AIL CERTIFICATE
	DATE OF S	$ u$ erusit $_{-}/ au$	
	EXPRESS I I HEREE BEING D STRUCE AS	BY CERTIFY THAT	HIS CORRESPONDENCE IS HE UNITED STATES POSTAL POST OFFICE AND A STATES POSTAL
0.1.of 2	ON THE A	BOVE DATE IN AN	ENVELORE TO ADDRESSEE
e 1 of 2	~ A	LEXANDRIA VIR	INIA 22212 1450
	CMAILED BY Date	Child Care The	(PCT Folder), Merck & Co., Inc., 9/29/2004
	UAIE	111/18-0	4 1

U.S. APPLICATION NO. (If kno	PPLICATION NO. (If known, see 37 CFR 1.5)  INTERNATIONAL APPLICATION NO.  ATTORNEY'S DO						R		
To be Assigned		PCT/CAG	03/00838		MC058	158YP			
19. X The following	fees are submitted	l:		1		CALCULATIONS	PTO USE ONLY		
BASIC NATIONAL FEE					F				
international search fe	reliminary examination e [37 CFR 1.445(a)(2)] eport not prepared by the	paid to I	CFR 1.482) nor JSPTO and r JPO	\$1,110	.00				
International prelimina USPTO but Internation	ry examination fee (37 cal Search Report prepar	CFR 1.48 red by the	82) not paid to e EPO or JPO	\$950	.00				
International prelimina international search fee	ry examination fee (37 c) [37 CFR 1.445(a)(2)]	CFR 1.4 paid to U	82) not paid to USPTO but ISPTO	\$790	.00				
International prelimina but all claims did not s	ry examination fee paid atisfy provisions of PC	to USP7 Γ Article	TO (37 CFR 1.482) 33(1)-(4)	\$750	.00				
International prelimina claims satisfied provisi	ry examination fee paid ons of PCT Article 33(1	to USP1 l)-(4)	O (37 CFR 1.482) and all	\$100.	.00		<del></del>		
	ENTER AP	PROP	RIATE BASIC FEE	AMOUNT	=	\$950.00			
Surcharge of \$130.00 fo the earliest claimed prior	r furnishing the oat ity date [37 CFR 1	h or de .492(e)	claration later than 30].	months from					
Claims	Number File	q .	Number Extra	Rate					
Total Claims	19 -	20 =	0	X \$18.00	,	\$0.00			
Independent Claims	2	- 3 =	0	X \$88.00		\$0.00			
Multiple dependent clain	n(s) (if applicable)			+ \$300.00		\$0.00			
	T	OTAL	OF ABOVE CALC	ULATIONS	=	\$950.00			
Applicant claims sma above are reduced by	ll entity status. See 3 1/2.	7 CFR	1.27. The fees indicated				-		
			S	UBTOTAL	=	\$950.00			
Processing fee of \$130.00 from the earliest claimed	ofor furnishing the priority date (37 C	Englis FR 1.49	h translation later than 92(f)].	30 months	+				
			TOTAL NATI	ONAL FEE	=   -	\$950.00			
Fee for recording the enc accompanied by an appro	losed assignment [3 priate cover sheet (	37 CFR (37 CFI	1.21(h)]. The assign R 3.28, 3.31). \$40.00	ment must be per property.	+	773.00			
			TOTAL FEES E		_	\$950.00			
						Amount to be			
					$\vdash$	refunded			
a. A check in the a	amount of \$		to cover the above fee	becelere at a		charged			
			$\frac{3-2755}{1}$ in the amount of		•	to annually also			
A duplicate cop	y of this sheet is en	closed.	charge any additiona	•		to cover the above	1		
overpayment to	the Deposit Accoun	nt No.	13-2755. A duplicate	copy of this sh	eet is	enclosed.			
NOTE: Where an app [37 CFR 1.137(a) or (b	oropriate time limi  )] must be filed ar	it unde nd gran	r 37 CFR 1.494 or 1. ited to restore the ap	495 has not be plication to pe	en m endin	et, a petition to re g status.	vive		
SEND ALL CORRESPO Customer No. 000210	*******		(						
MERCK & CO., INC. Patent Department, RY6 P.O. Box 2000	0-30		× × × × × × × × × × × × × × × × × × ×	SNATZINE	X				
126 East Lincoln Avenue Rahway, New Jersey 07	=		Sylv	via A. Ayler		<u> </u>			
DATE: October 18, 200	4		NA	ME					
PHONE #: (732) 594-49	009		<u>36.4</u> RE	36 GISTRATION	NUM	IBER			
							1		

	DECLA	<b>ARA</b>	TIC	ON AND	Attorney Docket Number	MC058Y			
	POWER FOR UTIL			FORNEY R DESIGN	First Named Inventor	Xavier Billot, et al.			
	PATENT	`AP	PLI	CATION	C	OMPLETE IF KNOWN			
	(37	CFF	R 1.6	3)	Application Number				
X	Declaration Submitted			Declaration Submitted after Initial	Filing Date				
		OR		Filing (surcharge (37 CFR 1.16 (e))	Group Art Unit				
				required)	Examiner Name				

As a below named inventor, I hereby declare that:											
My residence, post office address, and citizenship are as stated below next to my name.											
I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:											
EP4 RECEPTOR AGONIST, COMPOSITIONS AND METHODS THEREOF											
the specification of which (Title of the Invention)											
	the specification of which										
OR											
is attached hereto OR											
was filed on (MM/DD	/YYYY)		as United States Applica	tion Number or PCT Internation	nal						
Application Number			nded on (MM/DD/YYYY)	(if ap	plicable).						
amended by any amendmen	newed and understated to specifically referre	nd the conte d to above.	ents of the above identified s	pecification, including the clai	ms, as						
I acknowledge the duty to disclose to the Patent and Trademark Office all information known to me to be material to patentability as defined in 37 CFR 1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application.											
America, listed below and ha	y PCT international ave also identified be	application low, by che	which designated at least or cking the box, any foreign a	y foreign application(s) for pate ne country other than the Unite application for patent or invented on which priority is claimed.	d States of						
Prior Foreign Application Number(s)	Country		Foreign Filing Date (MM/DD/YYYY)	Attorney Docket Number	Priority Claimed? YES NO						
		_									
Additional foreign applica	tion numbers are lister	d on a supplem	nental priority data sheet PTO/S	B/02B attached hereto:							
I hereby claim the benefit under	35 U.S.C. 119(e) of ar	y United Stat		ed below.							
Application Nun	iber(s)		Filing Date MM/DD/YYYY)	Attorney Docket N	umber						
50/386,499		06/06/200	)2	MC058PV							
50/460,134		04/03/200	)3	MC082PV							

## DECLARATION AND POWER OF ATTORNEY for Utility or Design Patent Application

is not discle 35 U.S.C. 1	osed in 12, I ac 6 whic applica		ted States or the duty to di ailable between	PCT in sclose in	ow and, international eformation	nsotar a al appli on know	es the su cation is on to me	bject matt the man	ter of ner p	feach provide	of the ed by t	claims o	of this applic paragraph of	ation
	U.S. Par	ent Application Application N		Parent Filing Date (MM/DD/YYYY)						Patent Numbe	r			
		(	-,1111)		+-	·	(ij	applicable)						
			-										-, <u>.</u>	<del></del>
	Additional U.S. or PCT international application numbers are listed on a supplemental priority data sheet PTO/SB/02B attached hereto.													
As a named in following reg connected the	istered p	I hereby appoiractitioner(s) t	nt, respectivel o prosecute th	y and inc is applica	lividually, ation and t	as my a to transa	ittorney(s ct all bus	s) or agent(s siness in the	s) wit Unit	th full p	oower o	of substituent and T	ition and revo	cation, the
			Customer Nu OR	mber						<b>→</b>			ner Number	]
		X	Registered pr	actitioner	(s) name/r	registrati	ion numb	er listed be	low	Ĺ	Bar	Code Lal	bel here	
·	Nai	ne			tration mber			1	Name	=				ration nber
Sylvia A. Ayle	r		36	,436										
Valerie J. Cam	. Camara 35,090													
								<u> </u>						
Direct all co	rrespon	dence to: X	Customer	Number	or Bar C	ode La	bel	<b>2000</b>	21	0 (				
Name	Sylvia	A. Ayler			_								<del></del>	
Address	Merck	& Co., Inc	Patent Depa	rtment										
Address	P.O. B	ox 2000, RY	760-30				•							
City	Rahwa	у	<del></del>			Stat	e N.	J	z	ПР		07065-0	907	
Country	USA	* *					94-4909		- 1	ax	- 1	(732)59		
I hereby decl belief are bel the like so m may jeopardi	ade are	punishable b	nurther that y fine or imp	these sta orisonme	iternents int, or bo	were m th, und	iade with er 18 U.	h the know	vledo	e that	willfu	I falce c	tatamanta an	ند.
lame of Sole o							A petit	ion has be	en fil	led for	this u	nsigned	inventor	
	ven Na	me (first an	d middle [if	any])				F	ami			Surnar		
avier nventor's	<del></del>	<u></u>		<del>,,,</del>		Bil	llot		,		May.	15	n 2003	· -
ignature	12		Sefle	5/_					Dat	te	\ <u></u>	$\leq_{\prime}$	lot_	
lesidence: lity	Mon	treal		State	Quebec	C	Country	Canada			Citize	enship	France	
ost Office ddress		Merck & Co	., Inc., P.O.	Box 200	0								·	
ity		Rahway				s	tate	NJ	]:	ZIP		07065	-0907	
Additional i	inventors	are being nan	ned on the	suppl	emental A	dditiona	l Invento	rs(s) sheet(s	s) PT(	O/SB/0	2A atta	ched her	eto.	

### DECLARATION AND POWER OF ATTORNEY

### · ADDITIONAL INVENTOR(S) Supplemental Sheet

Name of Additional Joint Inventor, if any:							A petit	petition has been filed for this unsigned inventor							
Give	n Na	ame (first and middle [	if any])			Family Name or Surname									
Robert N.		$\cdot \wedge$			Ì	Young									
Inventor's Signature									Date May 20/03						
Residence: City	Sen	Senneville State Que				Country CA					Citizenship				
Post Office Address		Merck & Co., Inc., P.O.	Box 20	00					_			· <del>L</del>			
City Rahway						tate NJ ZIP					07065-090	7			
		oint Inventor, if any:					petiti	on has b	een file	d fo	or this unsigned	d inventor			
Give	n Na	me (first and middle [i	f any])						Family	Na	ume or Surnar	me			
Yongxin						Han									
Inventor's Signature		Cala.	~	_					Date	е	may	20/03			
Residence: City	Kirk	cland	State	Quebec	;	Cou	ntry	CA			Citizenship	CA			
Post Office Address		Merck & Co., Inc., P.O.	Box 200	00					-			<u> </u>			
City		Rahway		State NJ Z			ZIP		07065-0907						
Name of Addition	al Jo	int Inventor, if any:				A petition has been filed for this unsigned inventor									
Giver	n Na	me (first and middle [it	any])			Family Name or Surname									
					T										
Inventor's Signature						Date					·				
Residence: City			State			Country				Citizenship					
Post Office Address		Merck & Co., Inc., P.O.	Box 200	0								· · · · · · · · · · · · · · · · · · ·			
City		Rahway			Sta	te	NJ		ZIP		07065-0907				
		int Inventor, if any:				A petition has been filed for this unsigned inventor									
Given	Nar	ne (first and middle [if	any])		$\bot$	Family Name or Surname									
Inventor's Signature									Date			. –			
Residence: City			State		-	Coun	try		<u> I</u>	1	Citizenship				
Post Office Address	P	Merck & Co., Inc., P.O. I	3ox 2000	)			<del>l</del>								
City	F	Rahway			Stat	te	NJ	]2	ZIP		07065-0907				
											<del></del>				